

Product datasheet for **SC117415**

Calmegin (CLGN) (NM_004362) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calmegin (CLGN) (NM_004362) Human Untagged Clone
Tag:	Tag Free
Symbol:	Calmegin
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC117415 sequence for NM_004362 edited (data generated by NextGen Sequencing)

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ATGCATTTCCAAGCCTTTTGGCTATGTTTGGGTCTTCTGTTCATCTCAATTAATGCAGAA
TTTATGGATGATGATGTTGAGACGGAAGACTTTGAAGAAAATTCAGAAGAAATTGATGTT
AATGAAAGTGAACCTTTCCTCAGAGATTAATAAATAAGACACCTCAACCTATAGGAGAAGTA
TATTTTGCAGAAACTTTTGATAGTGGAAGTTGGCTGGATGGGTCTTATCAAAAGCAAAG
AAAGATGACATGGATGAGGAAATTTCAATATACGATGGAAGATGGGAAATTGAAGAGTTG
AAAGAAAACCAGGTACCTGGTGACAGAGGACTGGTATTAATACTAGAGCAAAGCATCAT
GCAATATCTGCTGATTAGCAAAACCATTCAATTTTTGCTGATAAACCTTGATAGTTCAA
TATGAAGTAAATTTCAAGATGGTATTGATTGTGGAGGTGCATACATTAACTCCTAGCA
GACACTGATGATTTGATTCTGGAAAACCTTTATGATAAAACATCCTATATCATTATGTTT
GGACCAGATAAATGTGGAGAAGATTATAAACTTCATTTTATCTTCAGACATAAACATCCC
AAAACCTGGAGTTTTCGAAGAGAAACATGCCAAACCTCCAGATGTAGACCTTAAAAAGTTC
TTTACAGACAGGAAGACTCATCTTTATACCCTTGTGATGAATCCAGATGACACATTTGAG
GTGTTAGTTGATCAAACAGTTGTAACAAGGAAGCCTCTAGAGGATGTGGTTCCTCCT
ATCAAACCTCCCAAGAAATTGAAGATCCAATGATAAAAAACCTGAGGAATGGGATGAA
AGAGCAAAAATTCCTGATCCTTCTGCCGTCAAACCAGAAGACTGGGATGAAAGTGAACCT
GCCCAATAGAAGATTCAAGTGTGTTAAACCTGCTGGCTGGCTTGATGATGAACCAAAA
TTTATCCTGATCCTAATGCTGAAAAACCTGATGACTGGAATGAAGACACGGATGGAGAA
TGGGAGGCACCTCAGATTCTTAATCCAGCATGTCGGATTGGGTGTGGTGAAGTGAACCT
CCCATGATAGATAACCCAAAATACAAAGGAGTATGGAGACCTCCACTGGTCGATAATCCT
AACTATCAGGGAATCTGGAGTCTCGAAAAATTCCTAATCCAGATTATTTCAAGATGAT
CATCCATTTCTTCTGACTTCTTTCAGTGCTCTTGGTTTAGAGCTTTGGTCTATGACCTCT
GATATCTACTTTGATAATTTTATTATCTGTTTCGAAAAGGAAGTAGCAGATCACTGGGCT
GCAGATGGTTGGAGATGGAAAATAATGATAGCAAATGCTAATAAGCCTGGTGTATTA AAA
CAGTAAATGGCAGCTGCTGAAGGCACCCATGGCTTTGGTTGATTTATCTTGTGACAGCA
GGAGTGCCAAATAGCATTAAATTACTTTCATTTTGTGGCCAAGAAAAGTAAAGAAAAACAT
AAAGATACAGAGTATAAAAAACCGACATATGTATACCACAAAACAAAAGGAGTACTAGAG
CAAGAAGAAAAGGAGAGAAAGCAGCCCTGGAAAAACCAATGGACCTGGAAGAGGAAAAA
AAGCAAAATGATGGTGAATGCTTGAAGAAAGAGGAAAGTGAACCTGAGGAAAAGAGT
GAAGAAGAAATTGAAATCATAGAAGGGCAAGAAGAAAGTAAATCAATAAAGTCTGGG
TCAGAGGATGAGATGAAAGAAGCAGATGAGAGCACAGGATCTGGAGATGGCCGATAAAG
TCAGTACGCAAAAAGAGTACGAAAGGACTAA
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Clone variation with respect to NM_004362.2

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_004362 unedited TTTCCGTTTTGTAATACGACTTTACTATAGGGCGGCCGGAATTCGCACGAGGGGGACCA AGTGGCAACGACTTGGACATCTGAGCTGCTACTGCCGAAAACAGGCCGCAAGAGAGATAA TCAATATGCATTTCCAAGCCTTTTGGCTATGTTTGGGTCTTCTGTTTCATCTCAATTAATG CAGAATTTATGGATGATGATGTTGAGACGGAAGACTTTGAAGAAAATTGAGAAGAAATG ATGTTAATGAAAGTGAACCTTTCCTCAGAGATTAATAAAGACACCTCAACCTATAGGAG AAGTATATTTTGCAGAACTTTTGATAGTGAAGGTTGGCTGGATGGGTCTTATCAAAG CAAAGAAAAGATGACATGGATGAGGAAATTTCAATATACGATGGAAGATGGGAAATGAAG AGTTGAAAGAAAACAGGTACCTGGTGACAGAGGACTGGTATTAATACTAGAGCAAAGC ATCATGCAATATCTGCTGTATTAGCAAACCATTCATTTTTGCTGATAAACCTTGATAG TTCAATATGAAGTAAATTTCAAGATGGTATTGATTGTGGAGGTGCATACATTAACCTC TAGCAGACACTGATGATTTGATTCTGGAACCTTTTATGATAAACATCCTATATCATT TGTGGACCAGATAAATGTGGAGAAGAATTAACTTCATTTTATCTTCAGACATAAAC ATCCAAAACCTGGAGTTTTCGAAGAGAAACATGCCAAAACCTCAGATGTAGACCTAAAA GTTCTTTACAGACAGGAAGACTCATCTTATACCCTGTGATGAATTCAGATGACACATT GGAAGTGTAGTTGATCCAACCGTTGTTAAACAAAGGAAGCCTCCTAAAGATGTGGTTCCT CCTATCAAACCTCCCAAGAAATTGAAGTCCAATGATTAACCAACCGG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_004362 unedited GCCGCATCTAAATCGAGTTTTTTTTTTTTTTTTTTTTTTTGGTATAGAATCAAACAACCATACA GAAACTTTATTGCATTTAGCTCTTCACAACAGAACATATGCTCATTTTTATTATAGA ACCAGTTATATTGTTGTATAGCCATTTAAGTGGAAATTCATAAATGATTTTTTCAATA GCAATGAAGCTGTACATATTATTTTGTCTGTACAAACCAAACTATCTCCAAACA AAAACTGTGTAACCTTCTAATGGTATTAATCTCTTAAATCCGATATGTAATGTGCCACTT TATTCTAAATCAAAGATGAGGTAACCTCAAAGTTGCTCTTTTTCTCTGAAATGAAGG ACTAAAATAAATGCCTGAAAGAATAATGCTGCTAGATATTACAACAGGATGTGCAGA CTGATTAAGTTCAGGCTGGCATGCTGATTTTTACATGCCAAACATCCCTCCCGGGAAT TAAAAATTTCAATCTAGTTCAGTCTTTTCGACTCTCTTTTGGCACCAGACTTTATC GGCCCATCTCCAATCCTGTGCCTCCATCCGCTTCCTTCATCCCATCCCCTGACCCCAAC CTATCCGACCGATTACTTTCTCTGCTTTCATAAATAAATAACTTATAACCTCTTTA CCTCCGCAATACTTGCCCTTCATCTTACCCCTCCACCCACCTTAAAGATTTATTTACTT CATCAACACCTCGAAATACATAGGACCTCAACCCACCCACACACGCAAACCCACACC CATTAACCATCACAATATCACACAACCCACTCACACAAAATACTATATATCTCCCTCC GTTGTCTAACCCCTACACCTTATCATGCAAATCCCCATTCACTCTCTCTCCCTCCAC CTCACACTATCACTCTTTTTCTCCCTCCATCCCACCACCCCTCTCCCTTCT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_004362
Insert Size:	2450 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_004362.1](#), [NP_004353.1](#)

RefSeq Size: 2710 bp

RefSeq ORF: 1833 bp

Locus ID: 1047

UniProt ID: [O14967](#)

Cytogenetics: 4q31.1

Domains: calreticulin

Protein Families: Transmembrane

Gene Summary: Calmegin is a testis-specific endoplasmic reticulum chaperone protein. CLGN may play a role in spermatogenesis and infertility. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (1) is the shorter transcript. Both variants 1 and 2 encode the same protein.